EPA's RISK EVALUATION PROCESS and **NEW CHEMICALS PROGRAM**

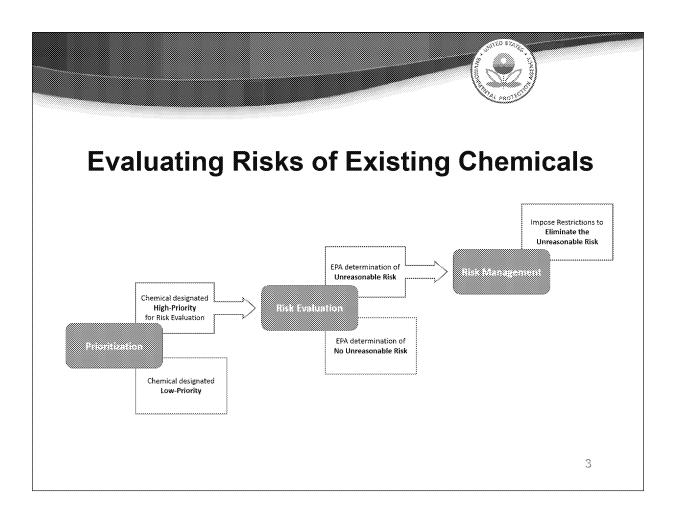
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Overview

- Risk Evaluation
 - Statutory Requirements
 - First 10 chemicals
 - PBTs
- EPA's New Chemicals Program
 - Amended TSCA Determinations
 - Current Approach
 - Implementation Tools





Risk Evaluation Statutory Requirements

- EPA must establish by rule a process for risk evaluation; signed by Administrator in June 2017
 - Determine if a chemical presents an unreasonable risk of injury to health or the environment under conditions of use (i.e., the circumstances, as determined by the Administrator, under which a chemical substance is intended, known, or reasonably foreseen to be manufactured, processed, distributed in commerce, use, or disposed of)
 - o Without consideration of cost or other non-risk factors
 - Including unreasonable risk to potentially exposed or susceptible subpopulation(s) determined to be relevant to the evaluation
- This process must be completed within 3 3.5 years
- For each risk evaluation completed, EPA must designate a new high-priority chemical
- By December of 2019, EPA must have initiated 20 high-priority chemicals for risk evaluation
 - o Additional risk evaluations may come from manufacturer requests



Risk Evaluation Statutory Requirements

• First 10 Chemicals – Announced December 19, 2016

1, 4 Dioxane1-BromopropaneAsbestosCarbon TetrachlorideCyclic Aliphatic Bromide Cluster (HBCD)

Methylene Chloride N-Methylpyrolidone Pigment Violet 29 Trichloroethylene Tetrachloroethylene

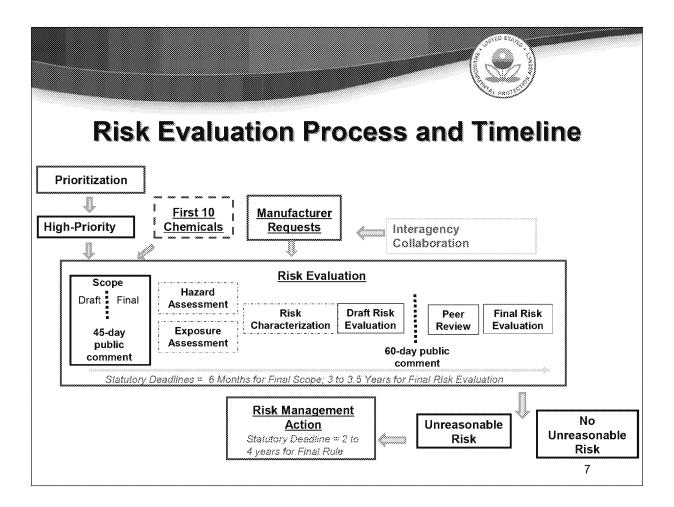
- Scope Publish within 6 months of initiation; must identify hazards, exposure, conditions of use, potentially exposed or susceptible subpopulation(s) EPA expects to consider
 - Scope documents published June 22, 2017
- Problem Formulation documents expected spring 2018

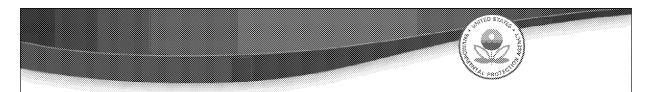


Risk Evaluation Statutory Requirements

Draft Risk Evaluation

- <u>Hazard Assessment</u> identification of types of hazards to human health and/or the environment
- <u>Exposure Assessment</u> the duration, intensity, frequency, and number of exposures under the conditions of use
- Risk Characterization integration of hazards and exposure into estimates of risk
- <u>Determination of Unreasonable Risk</u> does or does not present an unreasonable risk
- o Peer review all evaluations will be peer reviewed
- o Publication and 30 day public comment period





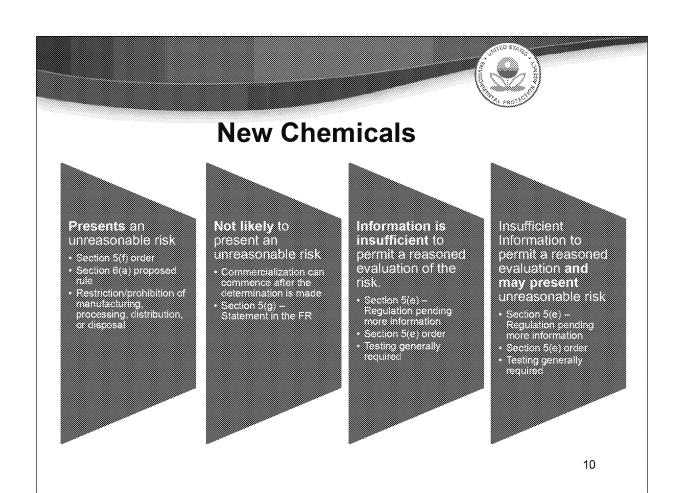
Persistent, Bioaccumulative and Toxic Chemicals

- Statute requires a fast-track process for certain PBT chemicals on the TSCA Work Plan and for which exposure is likely based on a use and exposure assessment, unless a manufacturer requested a risk evaluation by Sep 19, 2016
 - · Rulemaking is under development for 5 chemicals
 - · Manufacturer requests received for 2 PBT chemicals
- No formal risk evaluation
- Rules to address risks of injury to health or the environment and to reduce exposure to the extent practicable, must be proposed by June 2019 and finalized 18 months later
- Other PBTs are to be addressed in overall risk evaluation process



New Chemicals Background

- 2016 Amendments to TSCA
 - Required EPA to make affirmative finding on new chemicals and significant new uses of existing chemicals, before they can enter the market
 - Effective immediately
 - New chemicals determinations made using risk-based approach, considering hazard and exposure, based on conditions of use
- · Conditions of use
 - Means the circumstances, as determined by the Administrator, under which a chemical substance is intended, known, or reasonably foreseen to be manufactured, processed, distributed in commerce, use, or disposed of.





Current Approach

- At December 2017 public meeting, EPA presented and asked for comment on EPA's current working approach to make decisions on new chemical notices
- Intended conditions of use:
 - In general, these are the circumstances around manufacture, processing, distribution in commerce, use, or disposal as stated in the submission (original or amended).
 - In general, EPA will consider the amended conditions of use to be the intended conditions of use.



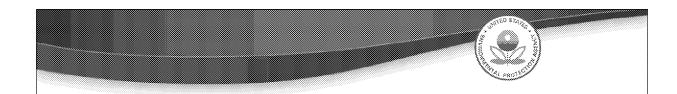
Current Approach

- · Reasonably foreseen conditions of use:
 - Identification of any reasonably foreseen conditions of use will be fact- or knowledge-specific; based on evidence, knowledge, or experience leading EPA to foresee conditions of use different from those described in the submission.



Pre-Submission Support

- Two common issues with submissions
 - Information does not allow for refinement of risk assessment
 - Submitter has useful information (e.g., analog data) but it's not provided to EPA
- New draft Points to Consider document
 - Will provide concise guidance to strengthen PMN submissions – largely based on existing documentation
 - Will promote more robust submissions, supported by robust pre-submission consultation "program"



Pre-Submission Support

- Pre-consultation meetings
 - Understanding of information useful to EPA's review
 - Helps improve submission quality and program efficiency
- Sustainable Futures Program
 - Provides companies with risk-screening models and training to help develop safer chemicals quickly and cost-effectively.
 - Participating companies become eligible for an expedited EPA premanufacture review
 - Contains description of most of the risk assessment process including models and tools
 - Gives insights on what types of engineering processes and releases will be calculated



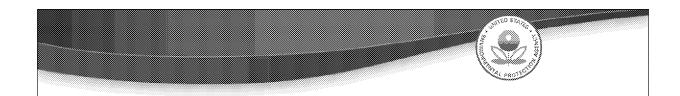
Pre-Submission Support

- New Chemicals Decision Guidelines Manual
 - Under development
 - Draft outline shared at December 2017 public meeting
 - Will provide submitters with information on how EPA conducts its new chemicals assessments
 - Will help stakeholders determine what forms of regulation and restrictions might be imposed on the manufacture, processing, distribution, use, and/or disposal of a new chemical substance
- Chemical category documents



Next Steps

- Considering public comments from December 2017 public meeting and on documents released in connection with the meeting
- Continuing to develop and revise as appropriate EPA's current approach to new chemicals, to accurately reflect OPPT's working approach as it evolves
 - Considering comments received
- Finalizing Points to Consider document and encouraging pre-submission consultation
 - Considering comments received
- Improving data systems to enhance ability to track, search and manage new chemical reviews
- · Identifying opportunities to streamline processing
- Promoting transparency
- · Continuing to improve overall performance



For More Information

https://www.epa.gov/assessing-and-managing-chemicalsunder-tsca/frank-r-lautenberg-chemical-safety-21st-century-act

Contact EPA at

https://www.epa.gov/assessing-and-managing-chemicalsunder-tsca/forms/assessing-and-managing-chemicals-undertsca